

7A-56

Los Alamos

NATIONAL LABORATORY

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

Date: October 22, 2001
In Reply Refer To: ESH-18/WQ&H:01-353
Mail Stop: K497
Telephone: (505) 665-1859



Mr. Samuel Coleman, P. E., Director
Compliance Assurance and Enforcement Division (6-EN)
U. S. Environmental Protection Agency
1445 Ross Avenue
Dallas, Texas 75202-2733

**SUBJECT: NOTICE OF CHANGED CONDITION AT NPDES OUTFALL 051,
NPDES PERMIT NO. NM0028355**

Dear Mr. Coleman:

On June 13, 2000, Los Alamos National Laboratory notified (Letter ESH-18/WQ&H:00-0194) the U. S. Environmental Protection Agency (EPA) regarding a change in the waste streams contributing to the effluent discharged from NPDES Outfall 051 at the Technical Area 50, Radioactive Liquid Waste Treatment Facility (TA-50 RLWTF). In order to meet the Department of Energy's (DOE) Derived Concentration Guidelines (DCGs) concerning radioactive constituents established by DOE Order 5400.5 and to meet ground water discharge requirements for nitrate and other parameters established by New Mexico Water Quality Control Commission (NMWQCC) Regulations, the TA-50 RLWTF upgraded its treatment processes in a two-phased project. Phase I, installation of the Tubular Ultrafiltration and Reverse Osmosis treatment units, was completed in November, 1999. Phase II, installation of the Electrodialysis Reversal (EDR) treatment unit and the interim mechanical evaporator, was completed in January, 2000. These upgrades have significantly improved effluent quality at TA-50 RLWTF.

Provided as Enclosure 1 is the updated process schematic for the TA-50 RLWTF which includes the Phase I and Phase II upgrades. Additionally, reverse osmosis permeate and evaporator distillate with more than 20 nCi/l of tritium are trucked to the TA-53 Radioactive Liquid Wastewater Treatment Plant (TA-53 RLWTP) which makes use of solar evaporation. A process schematic for the TA-53 RLWTP is provided as Enclosure 2.

Please contact Mike Saladen of the Laboratory's Water Quality and Hydrology Group at (505) 665-6085, if additional information would be helpful.

Sincerely,

A handwritten signature in black ink that reads "Steven Rae". The signature is fluid and cursive, with the first name "Steven" and last name "Rae" clearly distinguishable.

Steven Rae
Group Leader
Water Quality and Hydrology Group

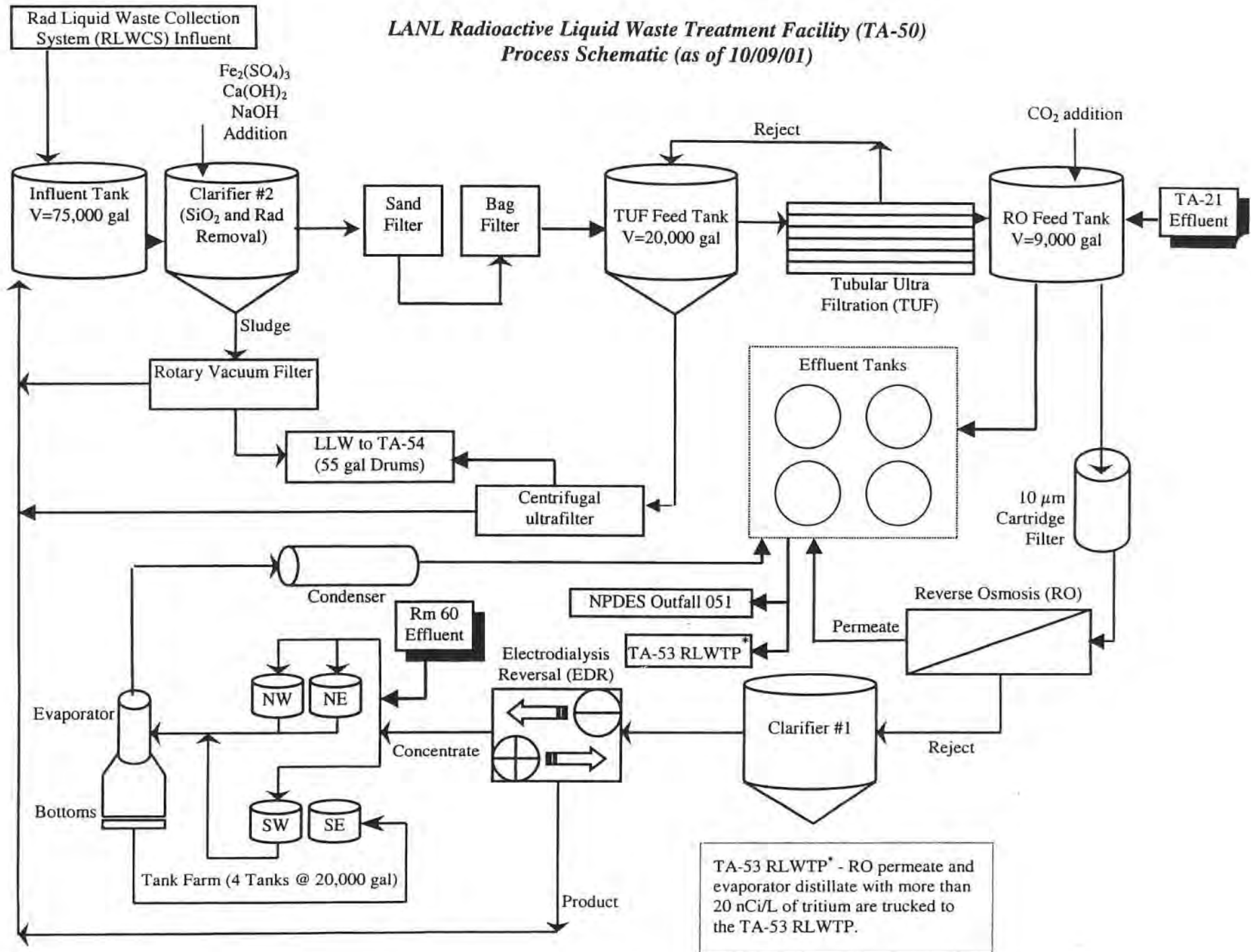
SR:MS/tml

Enclosures: a/s

Cy: E. Spencer, USEPA, Region VI, Dallas, Texas, w/enc.
S. Wilson, USEPA, Region VI, Dallas, Texas, w/enc.
J. Davis, NMED/SWQB, Santa Fe, New Mexico, w/enc.
J. Vozella, DOE/LAAO, w/enc., MS A316
K. Agogino, DOE/AL, w/enc., MS A316
J. Holt, ADO, w/enc., MS A104
A. Stanford, FWO-DO, w/enc., MS K492
B. Ramsey, FWO-DO, w/enc., MS K492
D. McLain, FWO-RLW, w/enc., MS E518
R. Alexander, FWO-RLW, w/enc., MS E518
L. McAtee, ESH-DO, w/enc., MS K491
P. Thullen, ESH-DO, w/enc., MS K491
D Stavert, ESH-DO, w/enc., MS K491
B. Beers, ESH-18, w/enc., MS K497
M. Saladen, ESH-18, w/enc., MS K497
M. Bailey, ESH-18, w/enc., MS K497
D. Woitte, UC-GEN, w/enc., MS A187
WQ&H File, w/enc., MS K497
IM-5, w/enc., MS A150

ENCLOSURE 1

LANL Radioactive Liquid Waste Treatment Facility (TA-50) Process Schematic (as of 10/09/01)



ENCLOSURE 2

*LANL Radioactive Liquid Waste Treatment Plant (TA-53)
Process Schematic (as of 10/09/01)*

